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INFO RUEBDBA/LT GEN CARROLL M DUNN DNA DJR WASHDC

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BT

UNCLAS CAPT GAY'S CONVERSATIONS WITH ME AND WITH ROGER RAY
FOLLOWING HIS MEETING AT DNA TUESDAY AND LCDR BROWN'S CONVERSATION
WITH RAY TODAY HAVE LEFT ME WITH THE IMPRESSION THAT WE PERHAPS
HAVE NOT WITH SUFFICIENT CLARITY DESCRIBED WHAT THE SOIL
SURVEY IS AND WHAT ITS END PRODUCT MAY BE EXPECTED TO BE.
CONSISTENT WITH YOUR BIRECTIVE OF SEPT. 13, 1972, TO
ME "TO ... CONDUCT A RADIOLOGICAL FIELD SURVEY TO DEVELOP
SUFFICIENT DATA ON THE TOTAL RADIOLOGICAL ENVIRONMENT ... TO
PERMIT ... THE (REQUIRED) JUDGMENTS (TO BE MADE)." WE HAVE
DEVELOPED, ON A STATISTICALLY SOUND BASIS, A SOIL MEASUREMENT
AND SAMPLING PLAN FOR THE ATOLL AS A TOTALITY. THIS IS BUT ONE
PART OF A COMPLEX SCIENTIFICALLY BASED PROGRAM WHICH INCLUDES
AIR AND WATER SAMPLING, LAND BIOTA AND MARINE LIFE AND BOTTOM
SAMPLING THROUGHOUT THE ATOLL AREA. THE SOIL EFFORT (MORE

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PROPERLY. THE EXTERNAL BOSE AND SOIL SURVEY), AS DEFINED IN SECTION 111 OF THE SURVEY PLAN INCLUDES A DETAILED FIELD METER SURVEY AT INTERVALS IN THE RANGE OF 50-100 FEET ON ALL LAND AREAS (FOR A TOTAL ESTIMATED TO EXCEED 25,000 READINGS) AND THE WITHDRAWAL OF SEVERAL HUNDREDS OF SAMPLES OF SOIL FOR STATESIDE RADIOCHEMICAL ANALYSIS. THE PRODUCT OF ALL OF THIS. AFTER A CONSIDERABLE PERIOD OF DATA REDUCTION AND INTERPRETATION. WILL BE A COMPREHENSIVE PICTURE OF THIS ASPECT OF THE ENVIRONMENT OF POTENTIAL INHABITANTS. JUST AS THE PROGRAM ITSELF IS STATISTICALLY DEVELOPED. THE INTERPRETATION OF RESULTS WILL BE STATISTICALLY DERIVED RATHER THAN SPECIFICALLY DEMONSTRATED. WHEN THESE RESULTS. THEN, ARE INTEGRATED WITH THE RESULTS OF THE OTHER FIELD EFFORTS AND EXAMINED IN THE PERSPECTIVE OF AN ASSUMED MODEL FOR THE CULTURE AND LIFE STYLE OF THE NEW ENIWETOK. IT IS HOPED THAT A SUFFICIENT BASIS WILL EXIST FOR SUPPORTABLE JUDGMENTS BY AN INDEPENDENT REVIEW CONNITTEE.

TO RETURN TO THE SOIL SURVEY PROGRAM, THE FIELD METER SURVEY IS NOT DESIGNED TO RESULT DIRECTLY IN THE IDENTIFICATION OF DEBRIS OR SOIL HOTSPOTS TO BE REMOVED. WHEN FOUND, THESE, OF COURSE, WILL BE PLOTTED AND MARKED FOR FUTURE REFERENCE,

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BUT SUCH RESULTS WILL BE A SYPRODUCT OF THE EFFORT TO SATHER SCIENTIFICALLY USEFUL INFORMATION.

THE EXTERNAL DOSE AND SOIL SURVEY IS THUS SEEN TO BE DIRECTED TOWARD THE ASSUMED REQUIREMENTS OF THE INDEPENDENT REVIEW GROUP IN MAKING ITS JUDGMENTS AS TO THE BROAD PARAMETERS OF LATER COURSES OF ACTION.

ITS TIMING IN THE CURRENTLY PLANNED SCHEDULE IS CONSISTENT WITH THAT PURPOSE AND IS BELIEVED TO MAXIMIZE THE USEFULNESS OF THE AIRBORNE RADIOMETRIC DATA ACQUISTION CURRENTLY PLANNED FOR NOV. 8-22, ALLOWING A REASONABLE PERIOD FOR THAT DATA TO BE USED IN REFINING THE SOIL SURVEY PLAN.

AS A SEPARATE ACTIVITY, IN SUPPORT OF THE DNA ENGINEERING SURVEY,

NV PLANS TO PROVIDE QUITE SPECIFIC RADIOLOGICAL SUPPORT. QUALIFIED

MONITORING TEAMS WILL ACCOMPANY HOLMES & NARVER ENGINEERING PERSONNEL

TO ASSIST IN THE EXAMINATION, PLOTTING AND MARKING OF ALL CONTAMINATED

STRUCTURES AND DEBRIS, AND IN NOTING ANY UNUSUAL RADIOLOGICAL HAZARDS

OR PROBLEMS. THEY WILL ALSO ASSIST IN THE EXAMINATION AND DOCUMENTATION

OF CRYPTS, BURIAL GROUNDS AND DISPOSAL SITES AND IN SUGGESTING

APPROPRIATE PRECAUTIONS TO BE TAKEN IN THEIR REMOVAL.

WE RECOGNIZE THAT THE ABOVE-DESCRIBED ACTIVITY LEAVES UNANSWERED WHAT MAY BECOME DNA"S MOST DIFFICULT PROBLEM -- THE EXTENSIVE PLUTONIUM

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CONTAMINATION OF A LARGE FRACTION OF RUNIT ISLAND, DUR CURRENT SURVEY PLAN ISHOT DESIGNED TO QUANTIFY THAT PROBLEM OR SUGGEST A SOLUTION FOR IT, RUNIT ISLAND HAS SUSTAINED NUMEROUS TEST DETONATIONS AND WHOLESALE EARTH MOVING WHICH HAVE LEFT SUCH A METEROGENEOUS CONTAMINATION PROBLEM AS TO BEFY ANY KNOWN SAMPLING OR CALCULATIONAL TECHNIQUES, SEPARATELY, WE WILL SHORTLY SUBMIT A RECOMMENDATION FOR ONE RESEARCH APPROACH TO THE RUNIT PUZZLE BUT FOR THE MOMENT WE CANNOT PROMISE ANY SUBSTANTIALLY IMPROVED UNDERSTANDING OF IT FROM THIS SURVEY.

NY'S PLANS ARE NECESSARILY FLUID. WE CLEARLY INTEND NO INTERRUPTION IN THE FLOW OF SAMPLES AND DATA THRU THE LABORATORIES AND INTO AND THRU THE DATA EVALUATION PROGRAM. SHOULD WE FIND THAT THE AIRBORNE SURVEY RESULTS ARE AVAILABLE SOONER THAN NOW ANTICIPATED AND ESPICALLY SHOULD SUCH RESULTS VIELD INFORMATION WHICH HAS DIRECT CLEANUP IMPLICATIONS, WE WILL, OF COURSE, FOLLOW THAT UP AS A MATTER OF HIGH PRIORITY. MEANWHILE, SHOULD THERE BE SPECIFIC OBTAINABLE INFORMATION WHICH WOULD ASSIST DIMA IN MAKING ITS JUDGMENTS, WE WILL DO EVERYTHING WITHIN OUR CAPABILITY TO OBTAIN IT IN TIMELY FASHION. OATRR

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